

**METHOD AND APPARATUS FOR IMPROVING SLICE TO SLICE RESOLUTION  
BY STAGGERING CELLS IN THE Z-AXIS**

**5 ABSTRACT**

The present invention provides a CT detector module with cell summing in the Z-direction and cell staggering in the X-direction. The present invention also provides a method for implementing the present invention by simply combining the cells in the Z-direction. The staggering of the cells in the Z-axis improves the signal sampling in the  
10 Z-direction without changing either the X-axis or Y-axis resolution. In effect, this provides spatial resolution in the Z-direction.